

# Rolf Riethmüller

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

474  
citations

687363

13  
h-index

794594

19  
g-index

25  
all docs

25  
docs citations

25  
times ranked

510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Density Gradients on Net Sediment Transport into the Wadden Sea. <i>Journal of Physical Oceanography</i> , 2008, 38, 566-587.	1.7	94
2	The Coastal Observing System for Northern and Arctic Seas (COSYNA). <i>Ocean Science</i> , 2017, 13, 379-410.	3.4	67
3	Evolution of the Loop Current System During the Deepwater Horizon Oil Spill Event as Observed With Drifters and Satellites. <i>Geophysical Monograph Series</i> , 2011, , 91-101.	0.1	31
4	Observational evidence for estuarine circulation in the German Wadden Sea. <i>Continental Shelf Research</i> , 2011, 31, 1633-1639.	1.8	31
5	The acclimative biogeochemical model of the southern North Sea. <i>Biogeosciences</i> , 2017, 14, 4499-4531.	3.3	30
6	The effect of bedforms (crest and trough systems) on sediment erodibility on a back-barrier tidal flat of the East Frisian Wadden Sea, Germany. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 72, 603-614.	2.1	24
7	Uncertainties associated with in situ high-frequency long-term observations of suspended particulate matter concentration using optical and acoustic sensors. <i>Progress in Oceanography</i> , 2019, 178, 102162.	3.2	20
8	Maximum sinking velocities of suspended particulate matter in a coastal transition zone. <i>Biogeosciences</i> , 2016, 13, 4863-4876.	3.3	19
9	On the separation between inorganic and organic fractions of suspended matter in a marine coastal environment. <i>Progress in Oceanography</i> , 2019, 171, 231-250.	3.2	19
10	On the morphological long-term development of dumped material in a low-energetic environment close to the German Baltic coast. <i>Journal of Marine Systems</i> , 2009, 75, 409-420.	2.1	17
11	Organic Matter Composition of Biomineral Flocs and Its Influence on Suspended Particulate Matter Dynamics Along a Nearshore to Offshore Transect. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2022, 127, e2021JG006332.	3.0	16
12	Sediment Transport in a Tidal Lagoon Subject to Varying Winds Evaluated with a Coupled Current-Wave Model. <i>Journal of Coastal Research</i> , 2005, 212, e11-e26.	0.3	14
13	Indirect determination of the heat budget of tidal flats. <i>Continental Shelf Research</i> , 2007, 27, 1656-1676.	1.8	14
14	Observational data sets for model development. <i>Coastal Engineering</i> , 2000, 41, 125-153.	4.0	13
15	Determination of the freshwater budget of tidal flats from measurements near a tidal inlet. <i>Continental Shelf Research</i> , 2010, 30, 924-933.	1.8	13
16	Characterizing the vertical distribution of chlorophyll a in the German Bight. <i>Continental Shelf Research</i> , 2019, 175, 127-146.	1.8	12
17	Operating Cabled Underwater Observatories in Rough Shelf-Sea Environments: A Technological Challenge. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	10
18	COSYNA, an integrated coastal observation system for Northern and Arctic Seas. , 2009, , .		8

#	ARTICLE	IF	CITATIONS
19	Observational evidence for the general presence of estuarine circulation in the Wadden Sea. Journal of Coastal Research, 2013, 165, 1527-1532.	0.3	4
20	Detecting small-scale horizontal gradients in the upper ocean using wavelet analysis. Estuarine, Coastal and Shelf Science, 2016, 180, 221-229.	2.1	4
21	Observed Storm Surge Morphodynamics and Implications to Numerical Modelling Schemes. , 2006, , 1.		0
22	Detection of salient features in surface current maps from dopplerized X-band radar. , 2010, , .		0